

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>		Attorney Docket No. <b>500.43053X00</b>	
		First Inventor <b>FUKANO, MASUMI</b>	
		Title <b>APPARATUS AND METHOD FOR DETECTING CHEMICAL AGENTS</b>	
(Only for new nonprovisional applications under 37 CFR 1.53(b))		Express Mail Label No.	

<b>APPLICATION ELEMENTS</b> SEE MPEP chapter 600 concerning utility patent application contents.		ADDRESS TO: <b>Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450</b>	
---	--	---	--

1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original and a duplicate for fee processing)</small>  2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.  3. <input checked="" type="checkbox"/> Specification <span style="float: right;">[Total Pages: <b>32</b>]</span> <small>(Preferred arrangement set out below)</small> -Descriptive title of the invention -Cross Reference to Related Applications -Statement Regarding Fed sponsored R & D -Reference to sequence listing, a table, or a computer program listing appendix -Background of the Invention -Brief Summary of the Invention -Brief Description of the Drawings (if filed) -Detailed Description -Claim(s) -Abstract of the Disclosure  4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) <span style="float: right;">[Total Pages: <b>2</b>]</span>  5. Oath or Declaration <span style="float: right;">[Total Pages: _____]</span> a. <input type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) <small>(for continuation/divisional with Box 18 completed)</small> i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventor(s) Named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)  6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76	7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, and necessary)</small> a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper c. <input type="checkbox"/> Statements verifying identity of above copies  <b>ACCOMPANYING APPLICATION PARTS</b> 9. <input type="checkbox"/> Assignment Papers (cover sheet & documents(s)) 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney <small>(when there is an assignee)</small> 11. <input type="checkbox"/> English Translation Document (if applicable) 12. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Citations Statement (IDSy/PTO-1449 13. Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <small>(Should be specifically itemized)</small> 15. <input checked="" type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small> 16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. <input checked="" type="checkbox"/> Other: <b>Information Disclosure Sheet Under 37 CFR 1.56(a) w/Refs., Credit Card Payment Form, Fis. 1-14</b>
---	--

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation    ☐ Divisional    ☐ Continuation-in-part (CIP)    of prior application No.: \_\_\_\_\_

Prior application information: Examiner: \_\_\_\_\_ Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

☒ Customer Number 020457 OR ☐ Correspondence address below

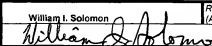
Name <b>ANTONELLI, TERRY, STOUT &amp; KRAUS, LLP</b>			
Address			
City	State	Zip Code	
Country	Telephone <b>(703) 312-6600</b>	Fax <b>(703) 312-6666</b>	
Name <b>William I. Solomon</b>	Registration No. (Attorney/Agent) <b>28,565</b>		
Signature <i>William I. Solomon</i>	Date <b>August 21, 2003</b>		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

03916 U.S. PTO  
10/64406

09742703

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>FEE TRANSMITTAL for FY 2003</b>				<b>Complete if Known</b>																																																																																																																																																									
Effective 01/01/2003. Patent fees are subject to annual revision.				Application Number																																																																																																																																																									
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27				Filing Date <b>August 21, 2003</b>																																																																																																																																																									
<b>TOTAL AMOUNT OF PAYMENT (\$)</b> 2566.00				First Named Inventor <b>FUKANO, MASUMI</b>																																																																																																																																																									
<b>METHOD OF PAYMENT</b> (check all that apply)				Examiner Name																																																																																																																																																									
<input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input checked="" type="checkbox"/> Deposit Account Deposit Account Number 01-2135 Deposit Account Name Antonelli, Terry, Stout & Kraus, LLP				Art Unit																																																																																																																																																									
The Commissioner authorized to: (check all that apply) <input type="checkbox"/> Charge fees indicated below <input type="checkbox"/> Credit any overpayments <input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fees indicated below, except for the filing fee to the above-identified deposit account.				Attorney Docket No. <b>500.43053X00</b>																																																																																																																																																									
<b>FEE CALCULATION</b>				<b>FEE CALCULATION (continued)</b>																																																																																																																																																									
<b>1. BASIC FILING FEE</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1001 750</td> <td>2001 375</td> <td>Utility filing fee</td> <td>750</td> </tr> <tr> <td>1002 330</td> <td>2002 165</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>1003 520</td> <td>2003 260</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>1004 750</td> <td>2004 375</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>1005 160</td> <td>2005 80</td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="3"><b>SUBTOTAL (1)</b></td> <td><b>750</b></td> </tr> </tbody> </table>				Large Entity	Small Entity	Fee Description	Fee Paid	1001 750	2001 375	Utility filing fee	750	1002 330	2002 165	Design filing fee		1003 520	2003 260	Plant filing fee		1004 750	2004 375	Reissue filing fee		1005 160	2005 80	Provisional filing fee		<b>SUBTOTAL (1)</b>			<b>750</b>	<b>3. ADDITIONAL FEES</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1051 130</td> <td>2051 65</td> <td>Surcharge - late filing fee or oath</td> <td></td> </tr> <tr> <td>1052 50</td> <td>2052 25</td> <td>Surcharge - late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>1053 130</td> <td>2053 65</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>1812 2,520</td> <td>2812 1,260</td> <td>For filing a request for ex parte reexamination</td> <td></td> </tr> <tr> <td>1804 920*</td> <td>2804 460*</td> <td>Requesting publication of SIR prior to Examination action</td> <td></td> </tr> <tr> <td>1805 1,840*</td> <td>2805 920*</td> <td>Requesting publication of SIR after Examination action</td> <td></td> </tr> <tr> <td>1251 110</td> <td>2251 55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>1252 410</td> <td>2252 205</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>1253 930</td> <td>2253 465</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>1254 1,450</td> <td>2254 725</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>1255 1,970</td> <td>2255 985</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>1401 320</td> <td>2401 160</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>1402 320</td> <td>2402 160</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>1403 280</td> <td>2403 140</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>1451 1,510</td> <td>2451 755</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>1452 110</td> <td>2452 55</td> <td>Petition to revive - unavoidable</td> <td></td> </tr> <tr> <td>1453 1,300</td> <td>2453 650</td> <td>Petition to revive - unintentional</td> <td></td> </tr> <tr> <td>1501 1,300</td> <td>2501 650</td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>1502 470</td> <td>2502 235</td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>1503 630</td> <td>2503 315</td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>1406 130</td> <td>2406 65</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>1807 50</td> <td>2807 25</td> <td>Processing fee under 37 CFR 1.17(g)</td> <td></td> </tr> <tr> <td>1808 180</td> <td>2808 90</td> <td>Submission of Information Disclosure Stmt</td> <td></td> </tr> <tr> <td>8021 40</td> <td>8021 20</td> <td>Recording each patent assignment per property (times number of properties)</td> <td></td> </tr> <tr> <td>1809 750</td> <td>2809 375</td> <td>Filing a submission after final rejection (37 CFR § 1.129(a))</td> <td></td> </tr> <tr> <td>1810 750</td> <td>2810 375</td> <td>For each additional invention to be examined (37 CFR § 1.129(b))</td> <td></td> </tr> <tr> <td>1801 750</td> <td>2801 375</td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td>1802 900</td> <td>2802 450</td> <td>Request for expedited examination of a design application</td> <td></td> </tr> <tr> <td colspan="4">Other fee (specify) _____</td> </tr> <tr> <td colspan="4"><b>*Reduced by Basic Filing Fee Paid</b></td> </tr> </tbody> </table>		Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	1051 130	2051 65	Surcharge - late filing fee or oath		1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet		1053 130	2053 65	Non-English specification		1812 2,520	2812 1,260	For filing a request for ex parte reexamination		1804 920*	2804 460*	Requesting publication of SIR prior to Examination action		1805 1,840*	2805 920*	Requesting publication of SIR after Examination action		1251 110	2251 55	Extension for reply within first month		1252 410	2252 205	Extension for reply within second month		1253 930	2253 465	Extension for reply within third month		1254 1,450	2254 725	Extension for reply within fourth month		1255 1,970	2255 985	Extension for reply within fifth month		1401 320	2401 160	Notice of Appeal		1402 320	2402 160	Filing a brief in support of an appeal		1403 280	2403 140	Request for oral hearing		1451 1,510	2451 755	Petition to institute a public use proceeding		1452 110	2452 55	Petition to revive - unavoidable		1453 1,300	2453 650	Petition to revive - unintentional		1501 1,300	2501 650	Utility issue fee (or reissue)		1502 470	2502 235	Design issue fee		1503 630	2503 315	Plant issue fee		1406 130	2406 65	Petitions to the Commissioner		1807 50	2807 25	Processing fee under 37 CFR 1.17(g)		1808 180	2808 90	Submission of Information Disclosure Stmt		8021 40	8021 20	Recording each patent assignment per property (times number of properties)		1809 750	2809 375	Filing a submission after final rejection (37 CFR § 1.129(a))		1810 750	2810 375	For each additional invention to be examined (37 CFR § 1.129(b))		1801 750	2801 375	Request for Continued Examination (RCE)		1802 900	2802 450	Request for expedited examination of a design application		Other fee (specify) _____				<b>*Reduced by Basic Filing Fee Paid</b>			
Large Entity	Small Entity	Fee Description	Fee Paid																																																																																																																																																										
1001 750	2001 375	Utility filing fee	750																																																																																																																																																										
1002 330	2002 165	Design filing fee																																																																																																																																																											
1003 520	2003 260	Plant filing fee																																																																																																																																																											
1004 750	2004 375	Reissue filing fee																																																																																																																																																											
1005 160	2005 80	Provisional filing fee																																																																																																																																																											
<b>SUBTOTAL (1)</b>			<b>750</b>																																																																																																																																																										
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																										
1051 130	2051 65	Surcharge - late filing fee or oath																																																																																																																																																											
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																											
1053 130	2053 65	Non-English specification																																																																																																																																																											
1812 2,520	2812 1,260	For filing a request for ex parte reexamination																																																																																																																																																											
1804 920*	2804 460*	Requesting publication of SIR prior to Examination action																																																																																																																																																											
1805 1,840*	2805 920*	Requesting publication of SIR after Examination action																																																																																																																																																											
1251 110	2251 55	Extension for reply within first month																																																																																																																																																											
1252 410	2252 205	Extension for reply within second month																																																																																																																																																											
1253 930	2253 465	Extension for reply within third month																																																																																																																																																											
1254 1,450	2254 725	Extension for reply within fourth month																																																																																																																																																											
1255 1,970	2255 985	Extension for reply within fifth month																																																																																																																																																											
1401 320	2401 160	Notice of Appeal																																																																																																																																																											
1402 320	2402 160	Filing a brief in support of an appeal																																																																																																																																																											
1403 280	2403 140	Request for oral hearing																																																																																																																																																											
1451 1,510	2451 755	Petition to institute a public use proceeding																																																																																																																																																											
1452 110	2452 55	Petition to revive - unavoidable																																																																																																																																																											
1453 1,300	2453 650	Petition to revive - unintentional																																																																																																																																																											
1501 1,300	2501 650	Utility issue fee (or reissue)																																																																																																																																																											
1502 470	2502 235	Design issue fee																																																																																																																																																											
1503 630	2503 315	Plant issue fee																																																																																																																																																											
1406 130	2406 65	Petitions to the Commissioner																																																																																																																																																											
1807 50	2807 25	Processing fee under 37 CFR 1.17(g)																																																																																																																																																											
1808 180	2808 90	Submission of Information Disclosure Stmt																																																																																																																																																											
8021 40	8021 20	Recording each patent assignment per property (times number of properties)																																																																																																																																																											
1809 750	2809 375	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																																																											
1810 750	2810 375	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																											
1801 750	2801 375	Request for Continued Examination (RCE)																																																																																																																																																											
1802 900	2802 450	Request for expedited examination of a design application																																																																																																																																																											
Other fee (specify) _____																																																																																																																																																													
<b>*Reduced by Basic Filing Fee Paid</b>																																																																																																																																																													
<b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>54</td> <td>-20** = 34</td> <td>x 18.00</td> <td>= 612.00</td> </tr> <tr> <td>Indep. Claims</td> <td>14</td> <td>-3** = 11</td> <td>x 84.00 = 924.00</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td>280.00</td> <td>= 280.00</td> </tr> <tr> <td colspan="3"><b>SUBTOTAL (2) \$</b></td> <td><b>1816.00</b></td> </tr> </tbody> </table> <p>**or number previously paid, if greater; For Reissues, see above.</p>				Total Claims	Extra Claims	Fee from below	Fee Paid	54	-20** = 34	x 18.00	= 612.00	Indep. Claims	14	-3** = 11	x 84.00 = 924.00	Multiple Dependent		280.00	= 280.00	<b>SUBTOTAL (2) \$</b>			<b>1816.00</b>	<b>SUBTOTAL (3) (\$)</b> 0.00																																																																																																																																					
Total Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																																																										
54	-20** = 34	x 18.00	= 612.00																																																																																																																																																										
Indep. Claims	14	-3** = 11	x 84.00 = 924.00																																																																																																																																																										
Multiple Dependent		280.00	= 280.00																																																																																																																																																										
<b>SUBTOTAL (2) \$</b>			<b>1816.00</b>																																																																																																																																																										
<b>SUBMITTED BY</b>																																																																																																																																																													
Name (Print/Type) <b>William L. Solomon</b>		Registration No. (Attorney/Agent) <b>26,565</b>		Telephone <b>703-312-6600</b>																																																																																																																																																									
Signature 		Date <b>08/21/2003</b>																																																																																																																																																											

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.